

SB150 AL Pavement Coating (Part A & B)

Technical Data Sheet



Description:

StreetBond® SB150 AL is a two-component advanced waterborne epoxy-modified acrylic coating specifically designed for application on stamped or flat asphalt or concrete substrates. StreetBond® SB150 AL has a modified aggregate blend allowing for application with an airless sprayer. StreetBond® SB150 AL's unique design allows it to maintain durability even when wet. StreetBond® SB150 AL's flexibility, adhesion and elongation allow for the expansion and contraction that is a characteristic of asphalt (flexible) pavements without cracking. StreetBond® SB150 AL can extend asphalt life by providing protection from the harmful effects of oxidation due to UV exposure and weathering.

Contact StreetBond® for information on approved product uses.

Uses and Advantages:

StreetBond® SB150 AL is combined with StreetBond® Colorants to offer a wide range of colors and can also be combined with StreetBond® Solar Reflective (SR) Colorants to produce a cool pavement surface for compliance with LEED specifications for urban heat island mitigation and to help provide more comfortable surfaces. StreetBond® SB150 AL meets EPA requirements for Volatile Organic Compounds (VOC) and is low odor during or after installation.

StreetBond® SB150 AL's friction properties are suitable for both pedestrian and light, low speed vehicular applications.

Uses:

- Asphalt parking lots, crosswalks, driveways, cycle lanes, pathways, curb demarcation, raised medians and athletic surfaces.
- As a top layer over StreetBond® SB150 or StreetBond® SB120 to slightly moderate the surface texture
- Asphalt preservation
- Striping and demarcation
- Can be used on concrete with proper surface preparation and primer.

Packaging:

One unit of StreetBond® SB150 AL consists of:

- (1) — 3.0 gallons* (11.35 liter) bucket of Part A
- (1) — 1 quart (0.95 liter) container of Part B
- (1) — StreetBond® Colorant (sold separately)

*Filled by weight

Shelf Life:

24 months if unopened containers are stored between 40°F and 90°F (4°C and 32°C).

Warranty:

StreetBond® products are covered under the StreetBond® 1-Year Limited Warranty. See streetbond.com for complete coverage and restrictions. Additional coverage may be available for purchase for eligible projects. Please contact your GAF – StreetBond® representative for details.

Note: Values are approximate and subject to normal manufacturing variations. These values are not guaranteed and are provided solely as a guide.

Application Instructions:

Surface Preparation:

Dirt, debris, water and contaminants sitting on the surface will affect adhesion. Thoroughly clean surface using a broom and backpack blower or in severe situations, use a power washer. Areas containing chemical contaminants such as vehicle fluids need to be treated using a degreasing solution. Proper removal of contaminants and degreasing solution is necessary prior to coating application. Care should be taken to ensure that the substrate is dry before applying the coating.

Consult the StreetBond® Substrate Guide if you are unsure of the quality of the surface. An environmentally friendly cleaner should be used. StreetBond® Adhesion Promoter may be used for polished asphalt. Some concrete applications will require a primer. No precipitation should be expected within 24 hours of product application.

Mixing:

Each mixed unit of StreetBond® coating consists of a Part A pail to which a Part B, your chosen Colorant and 1 quart (0.95L) of water (empty Part B can). Mix pail for 3 minutes.

In warmer conditions add a total of 1.5 quarts (1.4L) of water to improve workability before mixing. In cooler conditions add only a total of ½ quart (0.47L) of water to improve dry time. After mixing, product should be strained through a 600 micron or 30 mesh filter, prior to putting product into an airless sprayer.

Recommended Application:

StreetBond® SB150 AL may be applied in thin coats by brush, roller, texture sprayer, airless sprayer and striping machine. Due to the composition of SB 150 AL it is recommended to apply with a tip size of 0.015 or larger. Typical pedestrian applications require 3 layers of coating. Vehicle applications require 4 layers or more depending on the amount of traffic.

Recommended Application Coverage Rates:

Thickness (approx.)

# of Layers	Coverage (approx.)		Wet		Dry	
	sq ft/unit*	m²	mm	mil	mm	mil
1	800	74.3	0.20	8	0.09	3.6
2	400	37.2	0.42	16	0.19	7.2
3	267	24.8	0.63	24	0.28	11
4	200	18.6	0.84	33	0.38	15

* One unit is a normal 5 gal. pail comprising Part A, Part B, and Colorant (approximately 4.12 gal.).
Notes:

1. Exceeding the recommended application rate can lead to cracking and improper curing of the product.
2. One fewer application layer can be considered for unstamped surfaces provided the correct total dry mils are achieved.
3. Clean Up: Thoroughly rinse application equipment with clean water before coating dries. Contact StreetBond® technical services with questions at 855-444-9977. StreetBond® Sealer Concentrate can be applied to the surface of StreetBond® SB150 AL once the last layer of coating is dry to the touch. Coating must be allowed to cure before introducing traffic. Cure time will vary based upon climate conditions and range between 6-24 hours.

Drying and Cure Time Guide:

StreetBond® SB150 AL drying and curing times are dependent on weather conditions such as ambient temperature, relative humidity, surface temperature, and sun exposure vs shading. The data in these tables are offered as guidance and may vary in specific circumstances.

Recoat/Open-to-Traffic Time (hr)

	Direct sun & 7.5 mph wind			Indirect sun/Shade & 7.5 mph wind		
Relative Humidity (%)	20	50	80	20	50	80
Air Temperature (F)						
70	1.2	1.9	4.8	2.7	4.2	10.6
80	0.7	1.2	2.9	1.6	2.6	6.4
90	0.3	0.5	1.2	1.0	1.5	3.8
100	0.2	0.3	0.7	0.6	0.9	2.3
110	0.1	0.2	0.4	0.4	0.6	1.4
120	0.1	0.1	0.3	0.2	0.3	0.8

Product Characteristics

Type	Result	Test Method
Density	11.1 lb./gal (1.65 g/mL)	ASTM D1475
Volume Solids	45.2% +/- 2%	ASTM D1644
Weight Solids	59.3% +/- 2%	ASTM D1644
VOC (calculated)	<50 g/L	
Taber Abrasion (Dry — H-10 wheel)	< 0.05 g/1000 cycles Wear Index	ASTM D4060
Taber Abrasion (Wet — H-10 wheel)	<2.5 g/1000 cycles Wear Index	ASTM D4060
Mandrel	Bend 0.5 in. – 1.0 in.	ASTM D522
Accelerated Weathering	Pass	ASTM G154
Water Absorption	10%	ASTM D570
Adhesion	300 – 1400 psi	ASTM D4541
Dry Time	1 – 4 hours at 77°F (25°C) and 40% humidity	ASTM D5895
Friction	Dry = 55 – 81	ASTM E303
Permeance	5.6 perms	ASTM D1653
Application Temperature	50°F – 113°F (10°C – 45°C)	
Colorants	See Pavement Coating Color Guide for colors	
Hardness	80.8	ASTM D2240
Chemical Resistance	Breakthrough >5000 cycles	ASTM D2486 (5000 cycles)

Note: Values are approximate and subject to normal manufacturing variations. These values are not guaranteed and are provided solely as a guide.

Limitations and Precautions:

Ambient and surface temperatures must be 50°F (10°C) and rising before coating application. Do not ship or store unless protection from freezing is available.

Use StreetBond® concrete primers when applying to concrete substrates. No precipitation should be expected within 24 hours of product application.

Safety and Handling:

For specific information regarding safe handling of this material, please refer to the Safety Data Sheet (SDS).